

On board Devices

	Function	FMC Name	SP601 Pin	SP605 Pin	Notes
USB HOST	OE	LA11_P	B12	H14	
	SPD	LA16_N	A7	A5	
	TX_VMO	LA16_P	C7	C5	
	TX_VPO	LA15_P	G9	D18	
	RX_VP	LA12_N	C6	G13	
	RX_VM	LA11_N	A12	G15	
USB SLAVE	DMINUS	LA12_P	D6	H13	
	DPLUS	LA07_N	E8	A2	
	DISC	LA08_N	E11	A20	request reenumeration
	CONNECTED	LA04_N	A16	A19	high if usb is connected
INFRARED	TX	LA07_P	E7	B2	
	RX	LA08_P	F11	B20	
I ² C also present on P7	SDA	LA27_P	R11	AA10	Serial Data
	SCL	LA27_N	T11	AB10	Serial Clock
AUDIO	BCLK	CLK0_M2C_N	A10	G11	
	DIN	LA29_N	N8	U15	
	DOUT	LA29_P	M8	T15	
	LRCIN	LA28_P	U11	AA16	
	LRCOUT	LA24_N	V8	AB14	
	SCLK	LA30_P	T12	Y15	
	SDIN	LA31_N	V6	V15	
	CD	LA30_N	V12	AB15	
DIP SWITCHES	1	LA21_N	V4	W11	
	2	LA25_P	M11	W14	
	3	LA24_P	U8	AA14	
	4	LA25_N	N11	Y14	
LEDS	1	LA05_P	B14	C4	
	2	LA06_P	D12	D4	
	3	LA01_CC_N	C11	F15	
	4	LA01_CC_P	D11	F14	
DISPLAY	CS	LA02_P	C15	G8	Chip Select
	RES	LA00_CC_N	C9	F10	Reset
	SDIN	LA02_N	A15	F9	Serial Data In
	SCLK	LA03_P	C13	B18	Serial Clock
BUTTONS	UP	LA33_P	M10	Y17	
	RIGHT	LA32_N	V15	Y18	
	CENTER	LA32_P	U15	W17	
	LEFT	LA31_P	T6	U16	
	DOWN	LA33_N	N9	AB17	
	BACK	LA28_N	V11	AB16	

SD	DAT0	LA22_P	R7	V7
	DAT1	LA21_P	T4	V11
	DAT2	LA15_N	F9	D19
	DAT3	LA20_P	N7	R9
	CMD	LA19_P	N6	R11
	CD	LA20_N	P8	R8
	CLK	LA19_N	P7	T11
	WP	LA22_N	T7	W8
MOTOR	A ENABLE	CLK1_M2C_N	V9	F16
	A IN1	CLK0_M2C_P	C10	H12
	A IN2	CLK1_M2C_P	T9	E16
	B ENABLE	LA04_P	B16	C19
	B IN1	LA03_N	A13	A18
	B IN2	LA00_CC_P	D9	G9

Extension Headers

	Pin Number	FMC Name	SP601 Pin	SP605 Pin
P7, I²C	1	VCC 3.3V		
	2, SDA	LA27_P	R11	AA10
	3, SCL	LA27_N	T11	AB10
	4	-		
	5	GND		
P5	1	LA06_N	C12	D5
	2	LA05_N	A14	A4
	3	LA09_P	G11	F7
	4	LA10_P	D8	H10
	5	GND		
	6	LA09_N	F10	F8
	7	LA10_N	C8	H11
	8	LA13_P	B11	G16
	9	LA14_P	B2	C17
	10	GND		
	11	LA13_N	A11	F17
	12	LA14_N	A2	A17
	13	LA17_CC_P	R8	Y11
	14	LA17_CC_N	T8	AB11
	15	GND		
	16	LA18_CC_P	R10	T12
	17	LA23_P	N5	U9
	18	LA18_CC_N	T10	U12
	19	LA23_N	P6	V9
	20	GND		
	21	LA26_P	U7	U14
	22	LA26_N	V7	U13
	23	VCC 3.3V		
	24	VCC 2.5V		
	25	GND		
P6	1	VCC 12 V		
	2	GND		

I²C Devices

Model	Description	Address	Note
TCN75A	Temperature Sensor	1001000	
PCA9555	Bus Expander	0100000	outputs connected to LEDs, active high